



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY**

Name(s) Homin Key	Project Number S2307
Project Title Building an Effective System to Improve the Placement and Growth of Mycelium in Its Effect towards Bees and Varroa Mites	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective of this project is to find the best way to place Mycelium in a bee farm environment and to see its effect on honey bees and the Varroa Mites. I implemented a Mycelium Box that was placed outside of the colony while the mycelium frame was placed inside the colony.</p> <p>Methods/Materials I used Mycelium that was obtained by a commercial product (Back to the Roots : Mushroom Farm Kit). I was also given 18 bee colonies by a local bee keeper.</p> <p>Results The Mycelium box and mycelium frame were compared. The Mycelium box showed greater number of deaths in Varroa Mites and showed a more active hive.</p> <p>Conclusions/Discussion The performance of the Mycelium box showed that Mycelium should be placed in an open environment and that the Mycelium is also effecting the activeness of the bees.</p>	
Summary Statement I compared Mycelium's effect on the bees and Varroa mites in a close and open environment.	
Help Received I designed the Box and Frame but received supervision when testing with the Bees by Bee Keepers.	